

List of NOS Monitoring Programs by Program Office

Working Definition of Monitoring – Repetitive measurements intended to establish a baseline or determine a trend of environmental change.

NCCOS

Center for Coastal Monitoring and Assessment (CCMA)

NS&T

Benthic Surveillance (1984-93) – 120 sites

Mussel Watch (1986-present) – 250 sites

Contaminant Sediment Monitoring??

Bioeffects Surveys

EMAP Cooperative Program – South Atlantic coast

Coral Reef Mapping

FKNMS – no take zone monitoring

Florida Bay restoration monitoring

Laboratory Sample Intercomparison studies

Center for Coastal Fisheries and Habitat Research (CCFHR) at Beaufort

-- Field & lab techniques for habitat restoration models for Atlantic & Gulf fisheries

Center for Coastal Environmental Health and Biomolecular Research (CCEHBR) at Charleston

-- field methods to detect marine toxins, HABs, and shellfish pathology

-- field methods to assess WQ and ecosystem health

Great Lake Environmental Research Lab (GLERL)

-- field methods to detect linkages between coastal environments, biological resources, and atmospheric influences

Center for Sponsored Coastal Ocean Research (CSCOR) - Coastal Ocean Program

Coastal Intensive Site Network (CISnet) – NOAA, EPA, NASA

– 41 sites for intensive (Tier 3) study, includes some NERR sites

National Geodetic Survey

National Continuously Operating Reference Station Network/National Spatial Reference System

- aerial photograph (image acquisition) for digital shoreline and nautical chart production

BAYONET – subsidence measurements

Ocean-loading Deformations – changes in ocean floor(?) due to semi-diurnal tides

Coast Survey

Hydrographic data

Center of Operational Oceanographic Products and Services

Physical Oceanographic Real-Time Systems (PORTS)

-- Real-time tide predictions and ancillary physical and meteorological measurements at 8 sites

National Water Level Observation Network (NWLON)

-- Water level data and ancillary physical and meteorological measurements at 189 sites

ORR

Restoration Monitoring (e.g. Exxon Valdez monitoring) – 1989-2004

CSC

C-CAP

Sea Grass Mapping

Coast Watch (sea surface temperature)

LIDAR (Light Detection and Ranging) – shoreline change analysis

Remotely sensed water quality – misc. satellite and aircraft technologies,
e.g., algal bloom tracking

Protected Area GIS (PAGIS)

Benthic Habitat Monitoring, e.g., Coral Reef mapping

OCRM

Sanctuaries

NERRS (25 Reserves)

System-Wide Monitoring Program

Water quality (underway since 1996 using 2 data loggers per reserve), biological
communities and habitat change (proposed), and watershed land use changes
(proposed)

CICEET

SPO

Socio-economic monitoring

Research the Following:

Coastal GOOS

Integrated Science for Ecosystem Challenges (through CENR)